

222IHSSF1051



DocumentID NONCD0002740

Site Name WILSON TECH FIRE TRAINING

DocumentType Site Assessment Rpt (SAR)

RptSegment 1

DocDate 11/18/1998

DocRcvd 2/20/2007

Box SF1051

AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY



ENVIRO-LOGICAL SOLUTIONS, INC.

November 18, 1998

North Carolina Department of
Environment and Natural Resources
Division of Water Quality
Raleigh Regional Office
3800 Barrett Dr., Suite 101
Raleigh, NC 28405

Attention: Jim Roush

RE: FREDRICKSON MOTOR EXPRESS TERMINAL
2309 Whitley Road
Wilson, NC
Soil Contamination Report

Dear Mr. Roush:

Enviro-Logical Solutions, Inc. (ELS) has completed supplemental activities at the former Fredrickson Motor Express Corporation (Fredrickson) terminal located at 2309 Whitley Road, Wilson, North Carolina. The activities were conducted on October 14, 1998 and included removal and disposal of contaminated soils associated with an oil/water separator spill identified in a Notice of Violation issued by the Raleigh Regional Office in June 1996. The activities also included soil sample collection and analyses as discussed between yourself and Paul Casseday (ELS) on September 17, 1998.

The removal of impacted soils beneath the dispenser required the removal of 158.34 tons of material from the location of the former oil/water separator. Soil that appeared contaminated was screened in the field using a flame-ionization detector (FID).

Based on the sample analyses and soil removal completed in October, no contaminants above regulatory limits are now present. Therefore, ELS on behalf of Fredrickson requests that a closure with "No Further Action" be issued for this incident.

Your prompt attention regarding this situation is greatly appreciated. Should you have any questions or require additional information please do not hesitate to contact us.

Sincerely,
ENVIRO-LOGICAL SOLUTIONS, INC.

A handwritten signature in black ink, appearing to read 'Barry J. Lester'.

Barry J. Lester, P.E.
Division Manager

NOV 24 1998

cc: Alan Smith, Fredrickson Motor Express Corporation

SOIL CONTAMINATION REPORT

**FORMER FREDRICKSON TERMINAL
2309 WHITLEY ROAD
WILSON, NORTH CAROLINA**

Prepared for

**FREDRICKSON MOTOR EXPRESS
POST OFFICE BOX 560704
CHARLOTTE, NORTH CAROLINA**

*NOV 24 1998
28225*

Prepared by

**ENVIRO-LOGICAL SOLUTIONS, INC.
1147 PLEASANT OAKS DRIVE
MT. PLEASANT, SOUTH CAROLINA 29464**

November 1998

EXECUTIVE SUMMARY

Enviro-Logical Solutions, Inc., on behalf of Fredrickson Motor Express Corporation (Fredrickson) conducted environmental assessment work at the Fredrickson terminal located at 2309 Whitley Road, Wilson, North Carolina. During a review of records for the site, ELS discovered a Notice of Violation issued by the North Carolina Department of Environment and Natural Resources regarding an overload and discharge from an oil/water separator located near the shop facilities at the terminal. The violation was issued June 24, 1997; however, no incident number was issued pertaining to this discharge.

Previous work regarding the oil/water separator incident was performed by Law Engineering and Environmental Services, Inc. Based on their assessment, excavation of the petroleum-stained soils was recommended to mitigate potential further impacts to underlying soil and groundwater. Following conversations between Enviro-Logical Solutions, Inc. and the North Carolina Department of Environment and Natural Resources, additional sampling and corrective actions were required prior to issuance of a no further action.

On October 14, 1998 Enviro-Logical Solutions, Inc. oversaw the excavation of the impacted soil identified during the prior mentioned activities conducted by Law Engineering and Environmental Services, Inc. 158.34 tons of impacted soil was excavated. One soil sample was collected to confirm that soils were not present within the unsaturated zone with concentrations of petroleum constituents in excess of the "soil-to-groundwater", or the residential maximum soil contaminant concentrations. Based on results of the most recent assessment activities, Enviro-Logical Solutions, Inc., on behalf of Fredrickson Motor Express requests that a "No Further Action" approval be granted for this incident.

**SOIL CLEANUP REPORT WITH SITE CLOSURE REQUEST
FORMER FREDRICKSON TERMINAL
2309 WHITLEY ROAD
WILSON, NORTH CAROLINA**

I. General Information

A. Ownership of the Oil/Water Separator

1. Name of owner: Fredrickson Motor Express
2. Owner address and P.O. Box 560704
- Telephone number: Charlotte, NC 28262-0704
(704) 503-5102

B. Operator of the Oil/Water Separator

1. UST(s) Operator: Fredrickson Motor Express
2. Operator address and
- Telephone number: same as above

C. Facility Information

1. Facility name: Former Fredrickson Terminal
2. Facility ID #: N/A
3. Facility address and 2309 Whitley Road
- Telephone number: Wilson, NC
(N/A)

D. Contacts

1. Primary Contact: Alan Smith, CFO
Fredrickson Motor Express
same as above
2. Primary Consultant: Barry Lester, Division Manager, P.E.
Enviro-Logical Solutions, Inc., (ELS)
1147 Pleasant Oaks Drive
Mt. Pleasant, SC 29464
(843) 881-8524

3. Closure Contractor: Steve Evans, General Manager
3R of Charleston, Inc. (3R)
P.O. Box 71544
Charleston Heights, SC 29405
4. Laboratory Analysis: Specialized Assays, Inc.
2960 Foster Creighton Drive
Nashville, TN 37204
(800) 765-0980
NC Certification #387

Site Characteristics

1. Past releases at this site: The Raleigh Regional Office (RRO) of the North Carolina Department of Environment and Natural Resources (NCDENR) issued a Notice of Violation regarding an overload and discharge from the oil/water separator at the Fredrickson terminal. The violation was issued June 24, 1997. No incident number was found pertaining to this issue. A copy of the incident report is provided in Appendix A.
2. Currently, the facility is an in-active trucking terminal. The oil/water separator was removed sometime after the incident report was filed.
3. The facility is located in an industrial/commercial area. The location of the site is shown on Figure 1. A site map, which shows the approximate layout of the facility, is included as Figure 2.
4. Based on observations made during the soil excavation at the terminal, the surficial geology of the site consists of unconsolidated fine to medium grained sand with interbedded silty clays.
5. Site Receptor Survey: One potable well was identified on the terminal property. Construction specifications of the well were not available. The well is no longer in use and the facility is currently on a municipal water supply. The well is to be abandoned in November 1998.

II. Site Remediation

A. Impacted Soil Delineation

1. Petroleum impacted soil was identified during previous environmental assessment activities conducted by Law Engineering and Environmental Services, Inc. (LAW) in June 1997. During their efforts two soil samples were collected at the site. One soil sample was obtained from the oil/water separator basin at approximately five feet below land surface (bls). The second sample was collected adjacent to the area of impacted soil. The soil samples were analyzed for oil and grease by USEPA Method 9071 (Soil sample locations are shown in Figure 3). Analytical results indicated sample S-2 contained concentrations of oil and grease at 231 parts per million (ppm).
2. On September 22, 1998, Enviro-Logical Solutions, Inc. (ELS) collected another soil sample from the location of the reported oil/water separator spill. NCDENR requested that the sample analyses include USEPA Methods 8260, 8270, metals, and 9071 (oil and grease). The sample location is shown in Figure 4.
3. Results of soil samples collected by ELS indicated sample S-10 collected at the former oil/water separator contained 567 ppm of oil and grease, exceeding the North Carolina regulatory limit of 250 ppm.
4. The sample also contained detectable concentrations of ethylbenzene, toluene, xylenes, chromium and lead. However, none of the concentrations exceed either the Residential or Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCC's) established by the state of North Carolina. The results are summarized and compared to the MSCC's in Table 1. Copies of the analytical laboratory results are in Appendix B.

5. Based on the results of the sample analyses, ELS returned to the site on October 14, 1998. Approximately 158.34 tons of potentially impacted soil was excavated from the site of the former oil/water separator. Excavated soil was field screened using a flame-ionization detector (FID).
6. One soil sample was collected at the limits of the excavation six feet bls, following a clean field screen using the FID. The sample was collected for analysis by USEPA method 9071 and metals.
7. Results of soil samples collected on October 14, 1998 indicate that within the unsaturated zone, there are no impacted soils with concentrations of constituents in excess of applicable NCDENR Maximum Soil Contaminant Concentrations (MSCC). Sample S-10.1 had detectable concentrations of oil and grease, chromium, and lead; but none of the concentrations exceed either the Residential or Soil-to-Groundwater MSCC's established by the state of North Carolina. These results are summarized and compared to the MSCC's in Table 1. Copies of the analytical laboratory results are in Appendix C.

B. Excavation Procedures

1. Subsequent to collection of the soil sample, 158.34 tons of petroleum impacted soil was excavated and removed from the site for proper disposal. Soil was excavated from the location of the former oil/water separator spill (Figure 5). The collected soil was loaded onto dump trucks and transported to a treatment facility operated by Soil Recoveries, Inc. (SRI). A copy of SRI's Soil Closure Statement, including treatment records and waste manifests, is included in Appendix D.

III. Conclusions and Recommendations

Analytical results from the soil sample collected from the bottom of the excavation did not exceed either Residential or Soil-to-Groundwater MSCC's established by the state of North Carolina. Therefore, Enviro-Logical Solutions, Inc., on behalf of Fredrickson Motor Express, requests that a "No Further Action" order be issued for this incident.

Prepared By:

R. Paul Casseday
R. Paul Casseday, Geologist

Barry J. Lester
Barry J. Lester, P.E.
Division Manager

Reviewed By:

William B. Wright
William B. Wright, P.E.

TABLES

Table 1
SOIL SAMPLE RESULTS COMPARED TO N.C. MAXIMUM SOIL
CONTAMINANT CONCENTRATIONS
(PPM, mg/kg)

Arsenic
Barium

1.69 3.44
22.4 11.2

	Chemical of Concern	Residential	Soil-to-Groundwater	S-10	S-10.1
9071	Oil and Grease	250	250	567	115
	Chromium	78	27	10.4	8.93
	Lead	400	270	4.44	5.95
8260	Ethylbenzene	1560	0.24	0.0022	*
	Toluene	3200	7	0.0043	*
	Xylenes	32000	5	0.0075	*

Notes

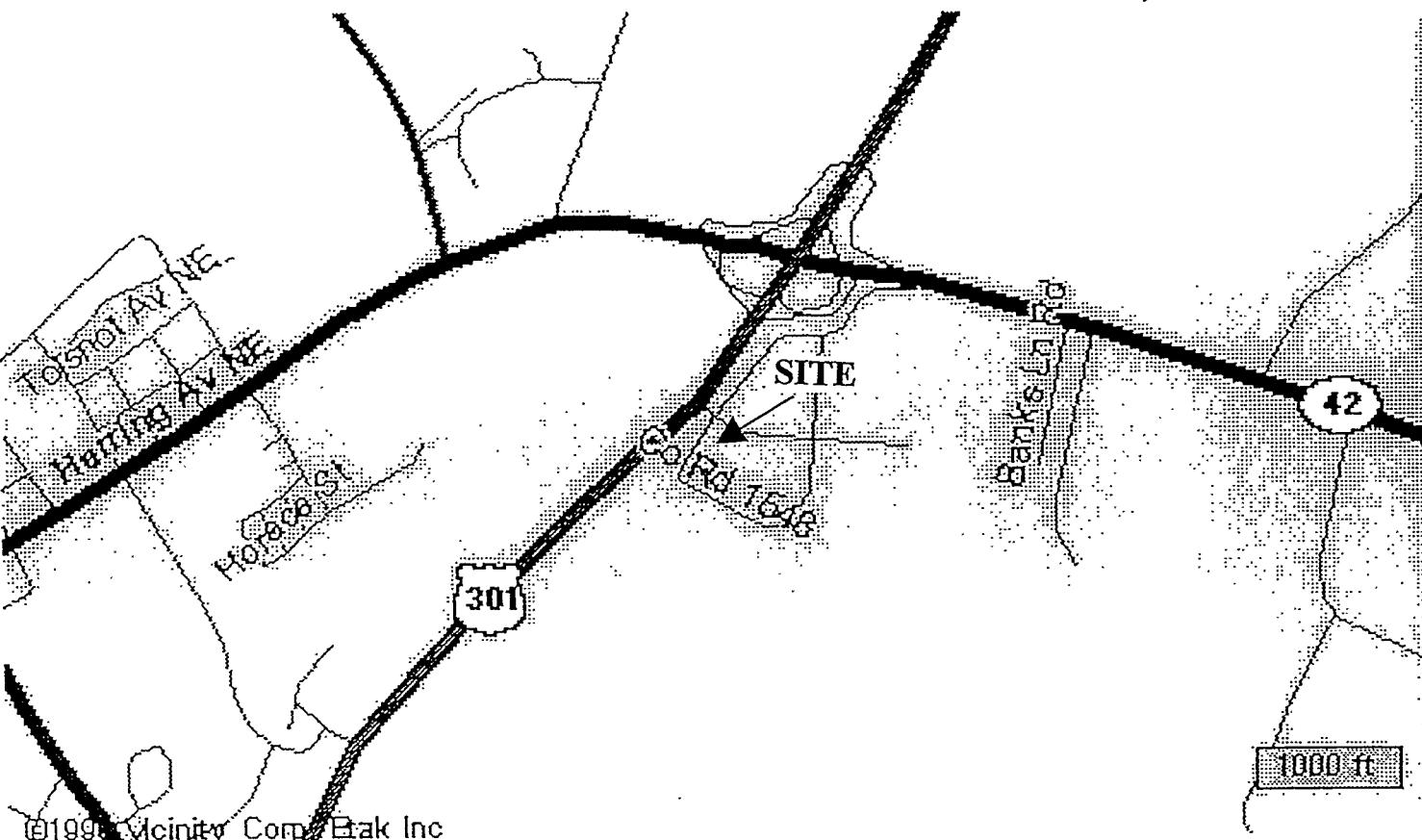
* - Sample S-10.1 was not analyzed for these constituents

FIGURES

DESIGNED BY:	CHECKED BY:	APPROVED BY:	DRAFTED BY: LTF	PROJECT#	CAD FILE# SITE	DWG DATE:
--------------	-------------	--------------	-----------------	----------	----------------	-----------



Wilson, NC



©1998 Enviro-Logical Solutions, Inc.

 ENVIRO-LOGICAL SOLUTIONS, INC. 1147 PLEASANT OAKS DR. MT. PLEASANT, SC 29646 (843)881-8524	NOT TO SCALE	SITE LOCATION FORMER FREDERICKSON HIGHWAY 301 WILSON, NC	TITLE FIGURE 1 SITE LOCATION MAP
---	---------------------	---	---



ENVIRO-LOGICAL SOLUTIONS, INC.
1147 PLEASANT OAKS DR.
MT. PLEASANT, SC 25464
(843)881-8524

NOT TO SCALE

SITE LOCATION

TITLE
FIGURE 1
SITE LOCATION MAP

DESIGNED BY:

CHECKED BY:

APPROVED BY:

DRAFTED BY: LTF

PROJECT# 96-269-00

CAD FILE# SITE

DWG DATE: 9/29/96

GRASS

N

AST

VERTICAL WASTE OIL AST

MAINTENANCE
SHOPWOMPEE
BROOKS
ROAD

ASPHALT/GRAVEL PARKING

4 DOORS

TERMINAL
BUILDING8 DOORS
PER SIDE

OFFICE

PROPANE
UST

O POTABLE WELL

FORMER UST
AREAFORMER
DISPENSER
ISLAND

SHED



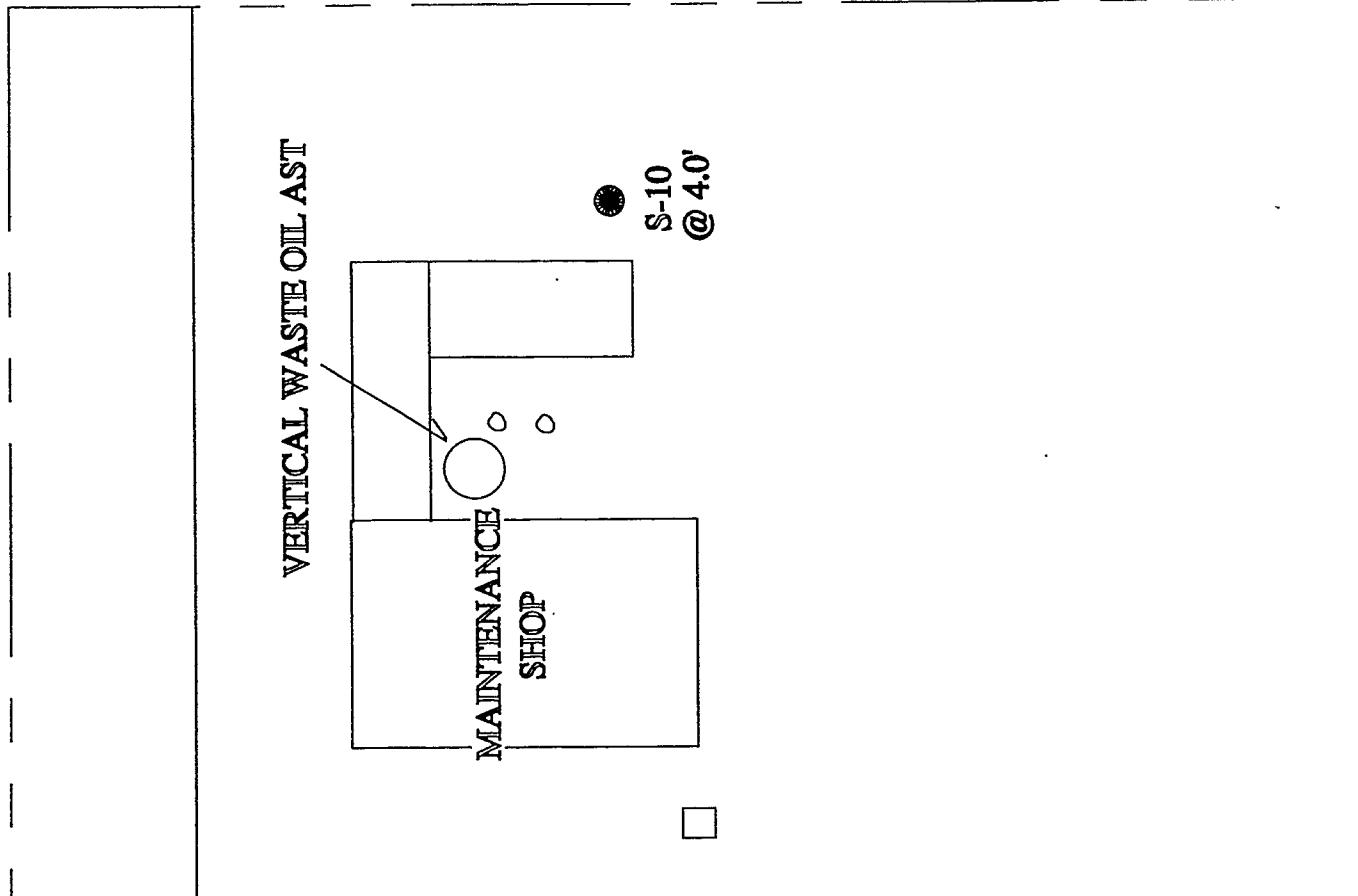
ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BOULEVARD
MT. PLEASANT, SC 29464
(803)881-8524

NOT TO SCALE

SITE LOCATION
FORMER FREDERICKSON
HIGHWAY 301
WILSON, NC

TITLE
FIGURE 2
FREDERICKSON TERMINAL LAYOUT

DESIGNED BY:	CHECKED BY:	APPROVED BY:	DRAFTED BY: LTF	PROJECT# 98-269-00	CAD FILE# SITE	DWG DATE: 9/29/98
--------------	-------------	--------------	-----------------	--------------------	----------------	-------------------



ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BOULEVARD
MT. PLEASANT, SC 29464
(803)881-8524

NOT TO SCALE

SITE LOCATION
FORMER FREDERICKSON
HIGHWAY 301
WILSON, NC

TITLE
FIGURE 4
SAMPLE LOCATION-SEPTEMBER 22, 1998

DESIGNED BY:

CHECKED BY:

APPROVED BY:

DRAINED BY: LTP

PROJECT#

96-269-00

CAD FILE#

SCDS

DWG DATE:

9/29/98

SOUTH END
OF
MAINTENANCE
BUILDING

NOT TO SCALE

SITE LOCATION
ROBERT FREDRICKSON
HIGHWAY 301
WILSON, NC

EXPLANATION

● APPROXIMATE SOIL SAMPLE LOCATION

— APPROXIMATE PROPERTY BOUNDARY
FENCE LINE

SKETCH PREPARED BY LAW ENGINEERING PERSONNEL 6/19/97.

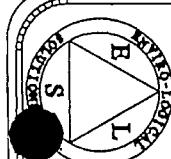


LAW

ENGINEERING AND ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

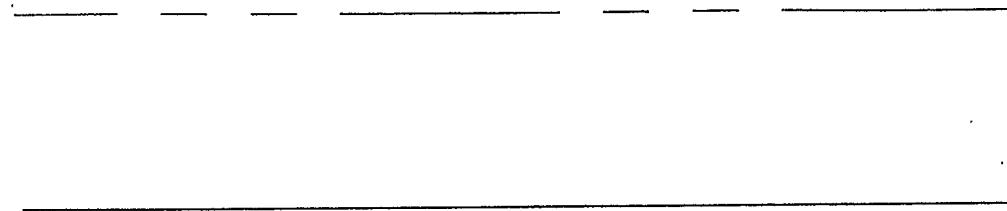
MSA	DATE 6-30-97	CHECKED CLC	DATE 6/30/97
-----	--------------	-------------	--------------

ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BOULEVARD
MT. PLEASANT, SC 29464
(803)881-8524

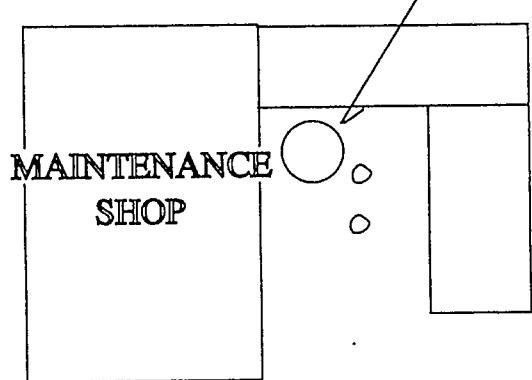


ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BOULEVARD
MT. PLEASANT, SC 29464
(803)881-8524

DESIGNED BY:	CHECKED BY:	APPROVED BY:	DRAFTERED BY: LIE	PROJECT #:	CAD FILE#:	DATE:
				96-289-00		9/29/96



VERTICAL WASTE OIL AST



S-10.1
@ 6.0'

APPROXIMATE
EXTENT OF
EXCAVATION

NOT TO SCALE

SITE LOCATION
ROOME FREDERICKSON
HIGHWAY 301
WILSON, NC

TITLE
FIGURE 5
EXCAVATION RECENT OCTOBER 14, 1996

APPENDIX A

State of North Carolina
Department of Environment,
Health and Natural Resources
Raleigh Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary

P 281 678 661



Receipt for
Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR RANDY PARKS
DIRECTOR OF OPERATIONS
FREDERICKSON MOTOR EXPRESS
CORPORATE OFFICE
3400 NORTH GRAHAM STREET

PO BOX 5369
CHARLOTTE NC 28225
NOV FREDERICKSON MOTOR EXPRESS
WILSON COUNTY
JWG - 7/3/97

DIVISION OF WATER QUALITY
GROUNDWATER SECTION

June 24, 1997

CERTIFIED MAIL

RETURN RECEIPT REQUESTED:

Mr. Randy Parks
Director of Operations
Fredrickson Motor Express
Corporate Office
3400 North Graham Street
Post Office Box 5369
Charlotte, N.C. 28225

PS Form 3800, June 1991	Return Receipt Showing to Whom & Date Delivered	
	Return Receipt Showing to Whom, Date, and Addressee's Address	
	TOTAL Postage & Fees	\$
	Postmark or Date	7/3/97

Subject: NOTICE OF VIOLATION
N.C. General Statutes 143-215, 143-215.84, 143-215.85
Fredrickson Motor Express
Wilson County

Dear Mr. Parks :

Chapter 143, Article 21A, of the North Carolina General Statutes, directs the Environmental Management Commission of the Department of Environment, Health, and Natural Resources to protect and preserve the water and air resources of the State. The Division of Water Quality (Division) has been charged with the duty and authority to enforce adopted pollution control rules and regulations.

On June 10, 1997 the Division conducted an investigation concerning the "unlawful discharge" of "oil" at 2309 Whitley Road, Wilson, North Carolina, Wilson County. This investigation determined that Fredrickson Motor Express , has caused a discharge of oil as a result of an unpermitted activity. This activity consisted of the over-loading of an oil-water separator and the improper storage of waste oils at the subject site. Observations by the investigator indicate that waste oils have been released from the oil-water separator and the storage area onto lands of the state.

3800 Barrett Drive, Suite 101,
Raleigh, North Carolina 27609
Voice 919-571-4700



FAX 919-571-4718
An Equal Opportunity Affirmative Action Employer
50% recycled/10% post-consumer paper

Page 2
Fredrickson Motor Express
June 24 , 1997

The "unlawful discharge" of "oil" as defined by G.S. §143-215.77, is considered to be a violation of :

G.S. §143-215.83, which prohibits the discharge of oil or other hazardous substances to the lands or waters of the State, regardless of the fault of the person having control over the oil or hazardous substance, or regardless of whether the discharge was the result of intentional or negligent conduct, accident or other cause.

G.S. 143-215.85 requires Fredrickson Motor Express to immediately report the unlawful discharge of oil in writing to the Division. This office does not have any record of this release being reported to the Division prior to June 10, 1997.

G.S. 143-215.84 requires Fredrickson Motor Express to immediately undertake to collect and remove the discharge or release and to restore the area affected to its preexisting condition. The Division does not have any documentation on file indicating that the contamination has been cleaned-up.

As a result of the Division's investigation, Fredrickson Motor Express is determined to be in violation of G.S. 143-215.83, G.S. 143-215.84, G.S. 143-215.85 .Therefore, you are hereby requested to complete the following corrective actions on or before July 31 , 1997

1. Remove all contaminated soil, properly dispose of all waste, and restore the area to its preexisting conditions.
2. Contaminated soils shall not be disposed of without written permission from the Division, unless they are disposed of at a permitted facility. Please submit documentation of soil removal and soil analysis, and proper waste disposal, with any other relevant information to this office.

Page 3 Motor Express
Fredricksco., 97
June 24, 1997

You are requested to submit by June 30, 1997 a written response to this Notice, indicating your intention to achieve compliance with the above-cited statutes or the reasons why you cannot or will not comply. If this office does not receive a response as requested, we will assume that you intend to comply with the above cited statutes.

If you have any questions, please call Jimmie Greer or Phillip Orozco of the Raleigh Regional Office at (919) 571-4700.

Sincerely,

Stacy Schuster, P.E.
Kenneth Schuster, P.E.
Regional Supervisor
Raleigh Regional Office

KS:JZ:PGO:JW/RRO
cc: File -ek
Bob C. nov
H:\fms

POLLUTION INCIDENT/U.S.T. LEAK REPORTING FORM

Department of Environment, Health, Natural Resources
Division of Environmental Management
GROUNDWATER SECTION

Confirm. GW Contamination (Y/N)	Incident #
Major Soil Contamination (Y/N)	Date Incident Occurred or Leak Detected
Minor Soil Contaminatin (Y/N)	

INCIDENT DESCRIPTION		JWG
Incident Location/Name <u>Fredrickson Motor Express</u>		
Address <u>2309 Whitley Rd NC 27893 (Highway 301 N.)</u>		
City/Town <u>Wilson</u> County <u>Wilson</u>		Region <u>Raleigh</u>
Briefly Describe Incident <u>oil/water separator at shop was overloaded and discharged at surface. Mr. Ray Hudnall of Wilson Co. Env. Health Dept. Notified EHNRC DWQ - GL - JWG Green.</u>		

POTENTIAL SOURCE OWNER-OPERATOR					
Potential Source Owner-Operator <u>SAME C/o Mr Randy Parks</u>		<u>WILSON OFFICE</u> Telephone <u>919 349-1111</u>			
Company <u>Corporate Office</u>		Street Address <u>3400 N Graham St</u>			
City <u>Charlotte</u>	County <u>Mecklenburg</u>	State <u>NC</u>	Zip Code <u>28225</u>		
OWNERSHIP 0. N/A 1. Municipal		3. Unknown	4. Private	5. Federal	6. County
OPERATION TYPE 0. N/A 1. Public Service		2. Agricultural	3. Residential	4. Educational/Relig.	5. Industrial
				6. Commercial	7. Mining

POLLUTANTS INVOLVED		
MATERIALS INVOLVED <u>Dense oil & Solvents</u>	AMOUNT LOST <u>UNK</u>	AMOUNT RECOVERED <u>UNK</u>

PRIMARY SOURCE OF POLLUTION (Select one)		PRIMARY POLLUTANT TYPE (Select one)	LOCATION	SETTING
1. Intentional dump	13. Well	1. Pesticide/herbicide	1. Facility	1. Residential
2. Pit, pond, lagoon	14. Above-ground Storage Tank	2. Radioactive waste	2. Railroad	2. Industrial
<u>3. Leak underground</u>	15. Nonpoint source	3. Gasoline <u>Diesel</u>	3. Waterway	3. Urban
4. Spray irrigation		4. Heating oil	4. Pipeline	4. Rural
5. Land application		5. Other petroleum prod.	5. Dumpsite	
6. Animal feedlot		6. Sewage/septage	6. Highway	
7. Source unknown		7. Fertilizers	7. Residence	
8. Septic tank		8. Sludge	8. Other	
9. Sewer line		9. Solid waste leachate		
10. Stockpile		10. Metals		
11. Landfill		11. Other Inorganics		
12. Spill-surface		12. Other organics		
D.E.M. Regional Contact <u>Tim Greer</u>		Signature <u>W. Greer</u>	Date <u>97-6-10</u>	Site Priority Ranking <u>20d</u>

APPENDIX B

SPECIALIZED ASSAYS ENVIRONMENTAL
 960 Foster Creighton Drive
 La REDACTED, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141
 BARRY LESTER
 855 B COLEMAN BLVD
 MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98
 Project: 98-269-00 Time Collected: 15:40
 Project Name: WILSON FREDRICKSON Date Received: 9/23/98
 Sampler: P CASSEDAY Time Received: 8:30
 State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Qan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Oil and Grease	567.	mg/kg	10.8	10.0	1	9/25/98	8:05	Fitzwater	9071A	3468
EXTRACTABLE ORGANICS										
Acenaphthene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Acenaphthylene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Anthracene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Benz (a) anthracene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Benz (b) pyrene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Benz (b) fluoranthene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Benz (g,h,i) perylene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Benz (k) fluoranthene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Bromophenylphenylether	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Butylbenzylphthalate	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Carbazole	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Chloro-3-methylphenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Chloraniline	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
bis(2-Chloroethoxy)methane	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
bis(2-Chloroethyl)ether	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
bis(2-Chloroisopropyl)ether	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Chloranthracene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Chlorophenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Chlorophenylphenylether	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Chrysene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Dibenzofuran	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Dibenzo (a,h) anthracene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
1,2-Dichlorobenzene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
1,3-Dichlorobenzene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
1,4-Dichlorobenzene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
3,3'-Dichlorobenzidine	ND	ng/kg	0.710	0.660	1	9/25/98	15:23	M. Goodrich	8270C	5868
2,4-Dichlorophenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868

PETALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
Knoxville, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141

BARRY LESTER
855 B COLEMAN BLVD
MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98

Project: 98-269-00 Time Collected: 15:40

Project Name: WILSON FREDRICKSON Date Received: 9/23/98

Sampler: P CASSEDAY Time Received: 8:30

State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Qan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Diethylphthalate	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2,4-Dimethylphenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Dimethylphthalate	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Di-n-butylphthalate	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4,6-Dinitro-2-methylphenol	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
2,4-Dinitrophenol	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
2,4-dinitrotoluene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2,6-Dinitrotoluene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Di-n-octylphthalate	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Fluoranthene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Fluorene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Hexachlorobenzene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Hexachlorbutadiene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Hexachlorocyclopentadiene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Hexachloroethane	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Indeno(1,2,3-cd)pyrene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Iepophrone	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Methylnaphthalene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Methylphenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
m,p-Methylphenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Naphthalene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Nitroaniline	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
3-Nitroaniline	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Nitroaniline	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
Nitrobenzene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
2-Nitrophenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
4-Nitrophenol	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
N-nitrosodi-n-propylamine	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
N-nitrosodiphenylamine	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Pentachlorophenol	ND	ng/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5868
Phenanthrene	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868
Phenol	ND	ng/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5868

PACIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
Memphis, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141
BARRY LESTER
855 B COLEMAN BLVD
MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98

Project: 98-269-00 Time Collected: 15:40

Project Name: WILSON FREDRICKSON Date Received: 9/23/98

Sampler: P CASSEDAY Time Received: 8:30

State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pyrene	ND	mg/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5968
Bis (2-ethylhexyl) phthalate	ND	mg/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5968
1,2,4-Trichlorobenzene	ND	mg/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5968
2,4,5-Trichlorophenol	ND	mg/kg	0.887	0.825	1	9/25/98	15:23	M. Goodrich	8270C	5968
2,4,6-Trichlorophenol	ND	mg/kg	0.355	0.330	1	9/25/98	15:23	M. Goodrich	8270C	5968
VOLATILE ORGANICS										
Acetone	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hart	8260B	5942
Benzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Bromobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Bromoform	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Bromomethane	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hart	8260B	5942
2-Butanone	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hart	8260B	5942
n-Butylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
sec-Butylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
t-Butylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Carbon Disulfide	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Carbon tetrachloride	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Chlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Chloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
2-Chloroethylvinylether	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Chloroform	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Chloromethane	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hart	8260B	5942
2-Chlorotoluene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
4-Chlorotoluene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Dibromochloromethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
1,2-Dibromomethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
Dibromomethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
1,2-Dichlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942
1,3-Dichlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hart	8260B	5942

PETALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
Brentwood, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141

BARRY LESTER
855 B COLEMAN BLVD
MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98

Project: 98-269-00 Time Collected: 15:40

Project Name: WILSON FREDRICKSON Date Received: 9/23/98

Sampler: P CASSEDAY Time Received: 8:30

State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Quant Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Dichlorodifluoromethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1-Dichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,2-Dichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1-Dichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
cis-1,2-Dichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
trans-1,2-Dichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,2-Dichloropropane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,3-Dichloropropane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
2,2-Dichloropropane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1-Dichloropropene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
cis-1,3-Dichloropropene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
trans-1,3-Dichloropropene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Ethylbenzene	0.0022	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Hexachlorbutadiene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
2-Hexanone	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hurt	8260B	5942
Isopropylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
4-Isopropyltoluene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
4-Methyl-2-pentanone	ND	mg/kg	0.0108	0.0100	1	9/27/98	5:58	N. Hurt	8260B	5942
Methylene chloride	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Naphthalene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
n-Propylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Styrene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Tetrachloroethene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Toluene	0.0043	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,2,3-Trichlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,2,4-Trichlorobenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1,1-Trichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,1,2-Trichloroethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Trichloroethene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942

PRECIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
Memphis, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141
BARRY LESTER
855 B COLEMAN BLVD
MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98

Project: 98-269-00 Time Collected: 15:40

Project Name: WILSON FREDRICKSON Date Received: 9/23/98

Sampler: P CASSEDAY Time Received: 8:30

State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,2,4-Trimethylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
1,3,5-Trimethylbenzene	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Vinyl chloride	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Xylenes	0.0075	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Bromodichloromethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
Trichlorofluoromethane	ND	mg/kg	0.0022	0.0020	1	9/27/98	5:58	N. Hurt	8260B	5942
METALS										
Arsenic	1.69	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Barium	22.4	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Cadmium	ND	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Chromium	10.4	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Lead	4.44	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Mercury	ND	mg/kg	0.11	0.10	1	9/25/98	14:32	C. Holmes	7471	3750
Selenium	ND	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
Silver	ND	mg/kg	1.06	0.98	1	9/26/98	12:56	C. Holmes	6010B	3768
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	93.	%			1	9/24/98	9:14	Schweikart	CLP	3048

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol	Extracted	Extract Vol	Date	Analyst	Method
ENW's		30.0 gm	1.0 mL	9/24/98	Fitzwater	3550

SPECIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
Brentwood, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141
BARRY LESTER
855 B COLEMAN BLVD
MOUNT PLEASANT, SC 29464

Lab Number: 98-A115545

Sample ID: S-10 Date Collected: 9/22/98

Project: 98-269-00 Time Collected: 15:40

Project Name: WILSON FREDRICKSON Date Received: 9/23/98

Sampler: P CASSEDAY Time Received: 8:30

State Certification: 387 Sample Type: Soil

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	109.	54. - 148.
surr-Toluene d8	112.	79. - 119.
surr-4-Bromofluorobenzene	112.	78. - 127.
surr-Nitrobenzene-d5	63.	26. - 110.
surr-2-Fluorobiphenyl	67.	25. - 111.
surr-Terphenyl d14	99.	35. - 132.
surr-Phenol d5	65.	23. - 127.
surr-2-Fluorophenol	57.	23. - 117.
surr-2,4,6-Tribromophenol	80.	28. - 118.

All samples have been corrected for dry weight.

Report Approved By:

Report Date: 10 / 2 / 98

Theodore J. Duello, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director
Johnny A. Mitchell, Dir. Technical Services

Laboratory Certification Number: 387

APPENDIX C

SPECIALIZED ASSAYS ENVIRONMENTAL
1960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

Original report and a copy of the chain of custody will follow by mail.

ENVIRO-LOGICAL SOLUTIONS, INC 8141
BARRY LESTER
1147 PLEASANT OAKS DRIVE
MOUNT PLEASANT, SC 29464

Lab Number: 98-A125777

Sample ID: S-10.1 Date Collected: 10/14/98
Project: 98-269-00 Time Collected: 16:30
Project Name: WILSON-FREDRICKSON Date Received: 10/15/98
Sampler: P.CASSEDAY Time Received: 9:00
State Certification: 387 Sample Type: Soil

Analyte	Result	Units	Report Limit	Quant Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Oil and Grease	115.	mg/kg	11.5	10.0	1	10/15/98	16:51	Fitzwater	9071A	3456
METALS										
Arsenic	3.44	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Barium	11.2	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Cadmium	ND	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Chromium	8.93	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Lead	5.95	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Mercury	ND	mg/kg	0.11	0.10	1	10/16/98	13:55	C.Holmes	7471	3452
Selenium	ND	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
Silver	ND	mg/kg	1.14	1.00	1	10/16/98	13:45	C.Holmes	6010B	3454
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	10/16/98	10:44	Fitzwater	CLP	3457

ND = Not detected at the report limit.

All samples have been corrected for dry weight.

Report Approved By:

Report Date: 10/16/98

Theodore J. Duollo, Ph.D., Q.A. Officer
Michael H. Dunn, M.S., Technical Director
Danny B. Hale, M.S., Laboratory Director
Johnny A. Mitchell, Dir. Technical Services

Laboratory Certification Number: 387

PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch
Oil and Grease	mg/kg	< 10.0	985.	1000	98.50	82. - 104.	3456
Arsenic	mg/kg	2.99	16.0	20.0	65.05#	80 - 120	3454
Barium	mg/kg	9.76	333.	400.	80.81	80 - 120	3454
Cadmium	mg/kg	< 1.00	16.2	20.0	81.00	80 - 120	3454
Chromium	mg/kg	7.77	39.1	40.0	78.32#	80 - 120	3454
Lead	mg/kg	5.18	84.5	100.	79.32#	80 - 120	3454
Mercury	mg/kg	< 0.10	0.18	0.17	105.88	80 - 120	3452
Selenium	mg/kg	< 1.00	12.1	20.0	60.50#	80 - 120	3454
Silver	mg/kg	< 1.00	7.63	10.0	76.30#	80 - 120	3454

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Oil and Grease	mg/kg	985.	960.	2.57	16.	3456
Arsenic	mg/kg	16.0	16.9	5.47	20	3454
Barium	mg/kg	333.	342.	2.67	20	3454
Cadmium	mg/kg	16.2	16.9	4.23	20	3454
Chromium	mg/kg	39.1	39.5	1.02	20	3454
Lead	mg/kg	84.5	87.2	3.15	20	3454
Mercury	mg/kg	0.18	0.19	5.41	20	3452
Selenium	mg/kg	12.1	13.6	11.67	20	3454
Silver	mg/kg	7.63	7.86	2.97	20	3454

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Oil and Grease	mg/kg	1000	975.	98.	70 - 130	3456
Arsenic	mg/kg	108.	109.	100.93	80 - 120	3454
Barium	mg/kg	60.0	61.0	101.67	80 - 120	3454
Cadmium	mg/kg	114.	104.	91.23	80 - 120	3454
Chromium	mg/kg	42.0	40.0	95.24	80 - 120	3454
Lead	mg/kg	44.0	40.1	91.14	80 - 120	3454
Mercury	mg/kg	1.71	1.64	95.91	80 - 120	3452
Selenium	mg/kg	71.0	68.2	96.06	80 - 120	3454
Silver	mg/kg	60.0	61.5	102.50	80 - 120	3454

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Oil and Grease	<10.0	mg/kg	3456
Arsenic	<1.00	mg/kg	3454
Barium	<1.00	mg/kg	3454
Cadmium	<1.00	mg/kg	3454
Chromium	<1.00	mg/kg	3454
Lead	<1.00	mg/kg	3454
Mercury	<0.10	mg/kg	3452
Selenium	<1.00	mg/kg	3454
Silver	<1.00	mg/kg	3454

APPENDIX D

SOIL RECOVERY, INC.

SOIL REMEDIATION PLAN

**ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BLVD.
MT. PLEASANT, SC 29464**

OCTOBER, 1998

SITE HISTORY

On October 14, 1998, approximately 158.34 tons of petroleum contaminated soil was removed from Fredrickson Terminal , located on Hwy 301, Wilson, NC. The contaminated soil was excavated and loaded on dump trucks and transported to SRI's treatment facility and placed on an impervious surface and covered.

FIELD ACTIVITIES

The I.R.V. - 100 Hydrocarbon Extraction System will be used to remove the contaminates in the soil to below the state action level. The system consists of a metal container 16' X 8' X2' which has eight -4" X .01 slotted stainless steel well screens in the bottom All the screens are attached to a manifold at one end of the container. This manifold is connected to a vacuum blower which pulls 3,000 C.F.M.of air through the system. Seven cubic yards of soil is loaded into the unit on top of these screens and 3,000 cubic feet per minute of air is drawn through the soil at 10 to 40 inches of vacuum. A roller carriage with space heaters is moved on top of the container to warm the air being pulled through the soil to enhance the stripping effect for heavier contaminates.

After processing, the post-treated soil will be re-staged on plastic until test results demonstrate that the treated soils are below the State's action level for T.P.H. One composite sample will be taken and tested by a certified laboratory for every 50 cubic yards tested

This clean soil will then be used for fill or spread out on site. All soil stockpiled will be covered with plastic during rain events to prevent leaching.

SOIL RECOVERY, INC.

SOIL CLOSURE STATEMENT

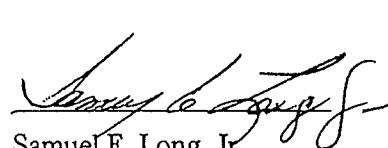
**ENVIRO-LOGICAL SOLUTIONS, INC.
855-B COLEMAN BLVD.
MT. PLEASANT, SC 29464**

OCTOBER, 1998

FIELD ACTIVITIES

On October 16, 1998, Soil Recovery, Inc. used the I.R.V. - 100 Hydrocarbon Extractor to remediate approximately 157.34 tons of petroleum contaminated soil. The contaminated soil was transferred into the Hydrocarbon Extractor and treated for approximately two hours. After the treatment process, the treated soil was unloaded and stockpiled on plastic. One soil sample was taken from the treated soil pile for every fifty (50) cubic yards of soil. The composite samples were placed in four-ounce glass jars and a teflon lined top installed. The samples were placed on ice and taken to a certified laboratory for testing by EPA method 9071 and 3550 followed by GC/FID.

Attached you will find the COC, Test Results and Treatment Records.


Samuel E. Long, Jr.
President
Soil Recovery, Inc.

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Month Document No.	2. Page of
3. Generator's Name and Mailing Address:		<i>Petroleum Terminal May 31 Cedar Hill NC</i>		
4. Generator's Phone:				
5. Transporter 1 Company Name: <i>HIGHWATER TRUCKING</i>		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address: SOIL RECOVERY, INC. CEDAR HILL ROAD NAVASSA, NORTH CAROLINA		10. US EPA ID Number		
11. Waste Shipping Name and Description: <i>PETROLEUM CONTAMINATED SOIL</i>		12. Consignment No.	13. Total Quantity	14. Unit Measure
15. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name		Signature	Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature	Month	Day	Year
<i>X LARRY MELTON JR</i>		<i>Larry Melton Jr.</i>	10	15	88
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature	Month	Day	Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 10.					
SAMUEL E. LONG, JR.					
Printed/Typed Name		Signature	Month	Day	Year
<i>Sam Long</i>		<i>Samuel E. Long Jr.</i>	10	15	88

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.	2. Manifest Document No.	3. Page 1 of
3. Generator's Name and Mailing Address: FREDRICKSON TERMINAL Hwy 301 Wilson, NC		
4. Generator's Phone (5. Transporter 1 Company Name	6. US EPA ID Number
Doss Trucking		
7. Transporter 2 Company Name	8. US EPA ID Number	
9. Designated Facility Name and Site Address SOIL RECOVERY, INC. CEDAR HILL ROAD NAVASSA, NORTH CAROLINA		10. US EPA ID Number
11. Waste Shipping Name and Description PETROLEUM CONTAMINATED SOIL OIL, GREASE - DIESEL		
12. Container No. 13. Total Quantity 14. Unit Weight		
15. Additional Descriptions for Materials Listed Above		
E. Handling Codes for Wastes Listed Above		
16. Generator's Certification: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of hazardous waste.		
Printed/Typed Name	Signature	Month Day Year
DALLAS G. CALYON		10/15/85
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year
DALLAS G. CALYON		10/15/85
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year
SAMUEL E. LONG, JR.		10/15/85
19. Discrepancy Indication Space		
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.		
Printed/Typed Name	Signature	Month Day Year
SAMUEL E. LONG, JR.		10/15/85

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Mailing Document No.	2. Page of
3. Generator's Name and Mailing Address: <i>FREDERICKSON TERMINAL</i> Hwy 301, Wilson, N.C.				
4. Generator's Phone				
5. Transporter 1 Company Name: <i>Highlander Construction</i>		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address: SOIL RECOVERY, INC. CEDAR HILL ROAD NAVASSA, NORTH CAROLINA		10. US EPA ID Number	A. Transporter's Phone B. Transporter's Phone C. Facility's Phone	
11. Waste Shipping Name and Description: a. PETROLEUM CONTAMINATED SOIL <i>Oil, Grease - Diesel</i>		12. Container No.	13. Total Quantity	14. Unit Wt/Vol
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify all materials described above on this manifest are not subject to federal regulations for reporting proper disposal of hazardous waste.				
Printed/Typed Name		Signature	Month	Day
				Year
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature	Month	Day
<i>Larry Melton</i>		<i>Larry Melton</i>	10	14
				98
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature	Month	Day
				Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
SAMUEL E. LONG, JR.				
Printed/Typed Name		Signature	Month	Day
<i>Samuel E. Long, Jr.</i>		<i>Samuel E. Long, Jr.</i>	10	14
				98

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Monitor's Document No.	3. Page of
3. Generator's Name and Mailing Address: <i>Fredrickson Terminal</i>				
4. Generator's Phone (
5. Transporter 1 Company Name <i>Highlander Construction</i>		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address SOIL RECOVERY, INC. CEDAR HILL ROAD. NAVASSA, NORTH CAROLINA		10. US EPA ID Number	A. Transporter's Phone B. Transporter's Phone C. Facility's Phone	
11. Waste Shipping Name and Description a. PETROLEUM CONTAMINATED SOIL <i>oil tank - Diesel</i>		12. Container No.	13. Total Quantity	14. Unit Wt/Vol
b.				
c.				
d.				
e. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
f. Special Handling Instructions and Additional Information				
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month Day Year
15. Transporter 1 Acknowledgement of Receipt of Materials <i>Mike Mikitis</i>		Signature		Month Day Year
16. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
17. Discrepancy Indication Space				
18. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. SAMUEL. E. LONG, JR.				
Printed/Typed Name		Signature		Month Day Year

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

Mailing
Document No.2. Page
of

3. Generator's Name and Mailing Address:

FREDERICKSON TERMINAL
HWY 301
WILKES, N.C.

4. Generator's Phone (

5. Transporter 1 Company Name

DSS TRUCKING

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

SOIL RECOVERY, INC.
CEDAR HILL ROAD
NAVASSA, NORTH CAROLINA

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description

PETROLEUM CONTAMINATED SOIL

OIL, PLEASE - PRESC

	12. Container No.	13. Type	14. Total Quantity	15. Unit Measure
a				
b				
c				
d				
e				
f				
g				
h				
i				
j				
k				
l				
m				
n				
o				
p				
q				
r				
s				
t				
u				
v				
w				
x				
y				
z				

13. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Signature

Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Deiss

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 10.

SAMUEL E. LONG, JR.

Printed/Typed Name

Sam Long

Signature

Month Day Year

10. V.S.V.

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Mailing Document No.	3. Page of
3. Generator's Name and Mailing Address: <i>FREDERICKSON RECOVERY</i>				
4. Generator's Phone: <i>Navy 301 Wilson, NC.</i>				
5. Transporter 1 Company Name <i>Highlander Construction</i>		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address SOIL RECOVERY, INC. CEDAR HILL ROAD. NAVASSA, NORTH CAROLINA		10. US EPA ID Number	A. Transporter's Phone	
			B. Transporter's Phone	
			C. Facility's Phone	
11. Waste Shipping Name and Description PETROLEUM CONTAMINATED SOIL		12. Containers No.	13. Total Quantity	14. Unit Weight
b				
c				
d				
15. Additional Descriptions for Materials Listed Above		E. Handling Codes for Waste Listed Above		
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of hazardous waste.				
Printed/Typed Name		Signature		Month Day Year
<i>Larry MELTON</i>				10 15 98
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
<i>Larry MELTON</i>		<i>Larry MELTON</i>		10 15 98
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
SAMUEL E. LONG, JR.		Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Manifest Document No.	3. Page 1 of
3. Generator's Name and Mailing Address: <i>FREDRICKSON TERMINAL HIGH 30/ WILSON, N.C.</i>				
4. Generator's Phone (5. Transporter 1 Company Name <i>HICKORY TRUCKING</i>		
6. US EPA ID Number		7. Transporter 2 Company Name		
8. US EPA ID Number		9. Designated Facility Name and Silo Address		
10. US EPA ID Number		11. Waste Shipping Name and Description <i>a. OIL & GREASE - DIESEL</i>		
		12. Containers No.	Type	13. Total Quantity
				14. Unit Wt/Vol
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
F. Special Handling Instructions and Additional Information				
G. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of hazardous waste.				
Printed/Typed Name		Signature		Month Day Year
H. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
I. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
J. Discrepancy Indication Space				
K. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 10.				
Printed/Typed Name		Signature		Month Day Year

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address: FREDRIKSEN TERMINAL Hwy 301 Wilson, NC				
4. Generator's Phone (
5. Transporter 1 Company Name HIGHWAY TANKING		6. US EPA ID Number		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address		10. US EPA ID Number	A. Transporter's Phone B. Transporter's Phone C. Facility's Phone	
11. Waste Shipping Name and Description a. OIL / KERAS - DIESEL		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
b.				
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature	Month	Day
				Year
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Michael Milkis		Signature Michael Milkis	Month 10	Day 15
				Year 1998
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature	Month	Day
				Year
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.				
Printed/Typed Name Tom Davis		Signature Tommy E. Davis	Month 10	Day 15
				Year 1998

envirochem

SM

CONSULTING
CHEMISTS**Environmental Chemists, Inc.**

MAILING ADDRESS:

P.O. Box 1037
Wrightsville Beach,
North Carolina 28480

TELEPHONE:

(910) 256-3934 (Office)
(910) 392-0223 (Lab)
(910) 392-4424 (Fax)

SHIPPING ADDRESS:

6602 Windmill Way
Wilmington,
North Carolina 28405

NCDEHNR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Customer:

SOIL RECOVERY, INC
P O Box 395
Castle Hayne, NC 28429
Attn: Sam Long

Date of Report: November 6, 1998

Purchase Order #:

Report Number : 8-3574

REPORT OF ANALYSIS

Date Sampled: 11/04 /98

Report To: Sam Long

Sampled By: Client

SOIL:

Client ID	MDL	PQL	WT - 1 # 8188
3550 mg/Kg	10	10	< 10
9071 mg/Kg	50	50	< 50

All results are on a dry weight basis

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

3550 = Total Petroleum Fuel Hydrocarbons using SW-846, 3550 with California GC-FID method for
Diesel Fuel

9071 = Oil & Grease using SW-846 Method for Oil & Grease

Reviewed by Felicia Highland and approved for release to client.



ENVIRONMENTAL CHEMISTS, INC

Sample Collection and Chain of Custody

Client:

S. L. Leavy, Inc.

Collected By:

Sam' Lovel

6602 Windmill Way
Wilmington, NC 28405
Phone: (910) 392-0223
FAX: (910) 392-4424

Report No: E-3574

Sample Type: Influent, Effluent, Well, Stream, Soil, Other:

SAMPLE IDENTIFICATION	COLLECTION			Comp or Grab	Cl ₂ mg/L	LAB ID	PRESERVATION						ANALYSIS REQUESTED	
	DATE	TIME	TEMP				NONE	HCl	H ₂ SO ₄	HNO ₃	NaOH	THIO		
WT-1	11-9-91	7:00a		C		E188								3550/9071
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										

NOTICE – DECHLORINATION: Samples for Ammonia, TKN, Cyanide, Phenol, and Bacteria must be dechlorinated (0.2 ppm or less) in the field at the time of collection. See reverse side for instructions.

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1				
2		/		

Temperature when Received:

Accepted:

Date/Time

Received By:

Date/Time

Delivered By: Sara
Comments:

Rejected: _____

Resample Requested:

Comments:



ENVIRONMENTAL CHEMISTS, INC

Sample Collection and Chain of Custody

6602 Windmill Way
Wilmington, NC 28405
Phone: (910) 392-0223
FAX: (910) 392-4424

Client:

Collected By:

Sol Secay, Inc
Tom Lang

Report No: 8-3575

Sample Type: Influent, Effluent, Well, Stream, Soil, Other:

NOTICE - DECHLORINATION : Samples for Ammonia, TKN, Cyanide, Phenol, and Bacteria must be dechlorinated

(0.2 ppm or less) in the field at the time of collection. See reverse side for instructions.

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1				
2		/		

Temperature when Received:

Accepted

Date/Time

Received By:

Date/Time

Delivered By: Suresh

Rejected:

- Resample Requested:

Delivered By: *Sally* *Tan*

Received By: K. J-F. CHAN

Date: 11/4/98 Time: 3:300

Comments:

envirochem

SM

CONSULTING
CHEMISTS**Environmental Chemists, Inc.**MAILING ADDRESS:
P.O. Box 1037
Wrightsville Beach,
North Carolina 28480TELEPHONE:
(910) 256-3934 (Office)
(910) 392-0223 (Lab)
(910) 392-4424 (Fax)SHIPPING ADDRESS:
6602 Windmill Way
Wilmington,
North Carolina 28405

NCDEHNR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Customer:

SOIL RECOVERY, INC
P O. Box 395
Castle Hayne, NC 28429
Attn: Sam Long

Date of Report: November 6, 1998

Purchase Order #:

Report Number : 8-3576

REPORT OF ANALYSIS

Date Sampled: 11/04/98

Report To: Sam Long

Sampled By: Client

SOIL:

Client ID	MDL	PQL	WT - 3 # 8190
3550 mg/Kg	10	10	< 10
9071 mg/Kg	50	50	< 50

All results are on a dry weight basis

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

3550 = Total Petroleum Fuel Hydrocarbons using SW-846, 3550 with California GC-FID method for
Diesel Fuel

9071 = Oil & Grease using SW-846 Method for Oil & Grease

Reviewed by Ronnie Hinkland and approved for release to client.



ENVIRONMENTAL CHEMISTS, INC

Sample Collection and Chain of Custody

Client:

SPL Pecony TIC

Collected By:

Sam Long

6602 Windmill Way
Wilmington, NC 28405
Phone: (910) 392-0223
FAX: (910) 392-4424

Report No: 8-3574

Sample Type: Influent, Effluent, Well, Stream, Soil, Other:

SAMPLE IDENTIFICATION	COLLECTION			Comp or Grab	Cl ₂ mg/L	LAB ID	PRESERVATION						ANALYSIS REQUESTED	
	DATE	TIME	TEMP				NONE	HCl	H ₂ SO ₄	HNO ₃	NaOH	THIO		
LOT-3	11-4-98	7:00a		C		8190								3530/9071
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										
				C										
				G										

NOTICE – DECHLORINATION : Samples for Ammonia, TKN, Cyanide, Phenol, and Bacteria must be dechlorinated (0.2 ppm or less) in the field at the time of collection. See reverse side for instructions.

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1				
2				

Temperature when Received:

Accepted: ✓

Rejected:

Resample Requested:

Delivered By:

Sam Long

Received By: K.K. Highland

Date: 11/4/98 Time: 3:30p

Comments: